

## HAUSP-Mdm2 INTERACTION AND USES THEREOF

## ABSTRACT OF THE DISCLOSURE

[00225] The present invention provides methods for diagnosing neoplasia, assessing the efficacy of therapy to treat neoplasia, assessing the prognosis of a subject who has neoplasia, and treating neoplasia. The present invention also provides a kit for use in detecting neoplasia. The present invention further provides methods for deubiquitinating and/or stabilizing Mdm2 in a cell, and for modulating deubiquitination and/or stability of p53 in a cell. Additionally, the present invention provides a method for identifying a modulator of Mdm2-HAUSP interaction. Also provided is a modulator identified by this method, a pharmaceutical composition comprising the modulator, and use of the modulator in a method of treating neoplasia. The present invention further provides methods for identifying an agent that is reactive with Mdm2 and an agent that is reactive with HAUSP. Also provided are agents identified by these methods. Finally, the present invention provides a complex comprising Mdm2 and HAUSP.